

Express Mail Label No. EV459191368US

30GF-1107
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ronald E. Gareis, et al.

: Art Unit: 2116

Serial No.: 09/751,233

: Examiner: Paul B. Yanchus, III

Filed: December 28, 2000

For: METHOD AND APPARATUS FOR
REGULATING CURRENT FOR
PROGRAMMABLE LOGIC CONTROLLERS

**Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

TRANSMITTAL

1. Transmitted herewith is:
Amendment (16 pgs.), in response to Office Action dated November 12, 2004, along with copy of Utility Patent Application Transmittal, Return Post Card and Express Mail Certificate dated December 28, 2000
Transmittal Form (3 pgs.), in duplicate
Information Disclosure Statement (1 pg.), along with copy of References FA, FB and OA
Information Disclosure Statement Transmittal Form (2 pgs.), in duplicate
Return Post Card

STATUS

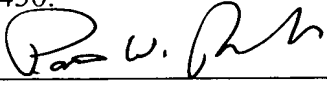
2. Applicant
☐ claims small entity status.
☒ is other than a small entity.

**CERTIFICATE OF MAILING BY EXPRESS MAIL TO
THE COMMISSIONER FOR PATENTS**

Express Mail No. EV459191368US

Date: May 12, 2005

I hereby certify that the documents listed above are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above in an envelope addressed to Mail Stop: Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Patrick W. Rasche, Reg. No. 37,916

EXTENSION OF TERM

3. The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136 apply.

(complete (a) or (b), as applicable)

- (a) X Applicant petitions for an extension of time under 37 C.F.R. 1.136
(Fees: 37 C.F.R. 1.17(a)-(d) for the total number of months checked below:)

Extension for response within:	Other than small entity Fee	Small entity Fee (if applicable)
<u> </u> first month	\$ 120.00	\$ 60.00
<u> </u> second month	\$ 450.00	\$ 225.00
<u> X </u> third month	\$ 1,020.00	\$ 510.00
<u> </u> fourth month	\$1,590.00	\$ 795.00
<u> </u> fifth month	\$2,160.00	\$1,080.00

Fee: \$1,020.00

If an additional extension of time is required, please consider this a petition therefor.

(Check and complete the next item, if applicable)

— An extension of months has already been secured. The fee paid
therefor \$ is deducted from the total fee due for the total months
of extension now requested.

Extension fee due with this request \$

OR

- (b) Applicant believes that no extension of term is required. However, this
conditional petition is being made to provide for the possibility that
applicant has inadvertently overlooked the need for a petition for extension
of time.

FEE FOR CLAIMS

4. The fee for claims (37 C.F.R. 1.16(b)-(d)) has been calculated as shown below:

	(Col. 1)		(Col. 2)	(Col. 3)	SMALL ENTITY		OTHER THAN SMALL ENTITY
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	ADDITIONAL RATE FEE	OR	ADDITIONAL RATE FEE
TOTAL	28	MINUS	28	= 0	x \$25.00 = \$		x \$50.00 = \$
INDEP.	4	MINUS	3	= 1	x \$100.00 = \$		x \$200.00 = \$200.00
— FIRST PRESENTATION OF MULTIPLE DEP. CLAIM					+ \$180.00 = \$		+ \$360.00 = \$
					TOTAL ADDITIONAL FEE \$	OR	TOTAL ADDITIONAL FEE \$200.00

(a) ☐ No additional fee for Claims is required

OR

(b) ☒ Total additional fee for claims required **\$ 200.00**

FEE PAYMENT

5. Attached is a check in the sum of \$_____

☒ Charge Deposit Account No. 01-2384 the sum of **\$1,220.00**.
A duplicate of this transmittal is attached.

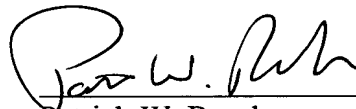
FEE DEFICIENCY

6. ☒ If any additional extension and/or fee is required, charge Deposit Account No. 01-2384.

AND/OR

☒ If any additional fee for claims is required, charge Deposit Account No. 01-2384.

7. ☐ Other:



Patrick W. Rasche
Reg. No. 37,916
ARMSTRONG TEASDALE LLP
One Metropolitan Square, Suite 2600
St. Louis, MO 63102
314-621-5070

Please type a plus sign (+) inside this box →

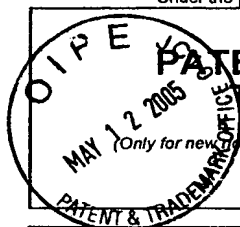


PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new provisional applications under 37 CFR 1.53(b))

Attorney Docket No.	30GF-1107
First Inventor	Ronald E. Gareis
Title	METHOD AND APPARATUS FOR REGULATING CURRENT FOR PROGRAMMABLE LOGIC CONTROLLERS
Express Mail Label No.	EL319708925US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
- ☐ Application claims small entity status.
See 37 CFR 1.27
- ☒ Specification [Total Pages 11]
(Preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- ☒ Drawing(s) (35 USC 113) [Total Sheets 2]
- Oath or Declaration [Total Pages 2]
 - ☒ Newly executed (original or copy)
 - ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

- ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (If applicable, all necessary)
 - ☐ Computer Readable Form (CRF)
 - Specification Sequence Listing on:
 - ☐ CD-ROM or CD-R (2 copies); or
 - ☐ paper
 - ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- ☒ Assignment Papers (cover sheet & document(s))
37 CFR 3.73(b) Statement
(when there is an assignee) ☒ Power of Attorney
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
- ☐ Certified Copy of Priority Document(s)
(If foreign priority is claimed)
- ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- ☒ Other: Certificate of Express Mail

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: ____/____

Prior application information:

Examiner: _____

Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label (Insert Custom No. or Attach bar code label here) or ☒ Correspondence address below

Name	John S. Beulick				
	Armstrong Teasdale LLP				
Address	One Metropolitan Sq., Suite 2600				
City	St. Louis	State	Missouri	Zip Code	63102
Country	US	Telephone	(314) 621-5070	Fax	(314) 621-5065

Name (Print/type)	Patrick W. Rasche	Registration No. (Attorney/Agent)	37,916
Signature		Date	12/28/2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Office, Patent and trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

THE UNITED STATES PATENT OFFICE IS REQUESTED TO IMPRESS ITS STAMP ON THIS CARD AND PLACE SAME IN THE OUTGOING MAIL TO SHOW THE FOLLOWING PAPERS HAVE BEEN RECEIVED.

Atty Dkt. No.:30GF-1107 (14983-00052)

Applicant: Ronald E. Gareis, Donald A. Gates, Edwin M. Thurnau

Application For: METHOD AND APPARATUS FOR REGULATING CURRENT
FOR PROGRAMMABLE LOGIC CONTROLLERS

Enclosed:

Patent Application Transmittal (1 pg.)

Fee Transmittal (1 pg.)

Specification (6 pgs.); Claims (4 pgs.); Abstract (1 pg.)

Drawings (2 sheets)

Declaration and Power of Attorney (2 pgs.)

Assignment (2 pgs.)

Recordation Form Cover Sheet (1 pg.) (in duplicate)

Certificate of Mailing Via Express Mail (1 pg.)

Express Mail #EL319708925US

PWR:mcc

Mailed: December 28, 2000

EL319708925US

PATENT
30GF-1107

CERTIFICATE OF MAILING BY EXPRESS MAIL TO
THE COMMISSIONER OF PATENTS AND TRADEMARKS

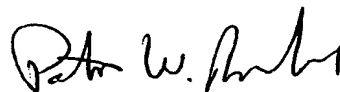
Express Mail mailing label number: EL319708925US

Date of Mailing: December 28, 2000

I certify that the attached patent application of **RONALD E. GAREIS, DONALD A. GATES** and **EDWIN M. THURNAU** for **METHOD AND APPARATUS FOR REGULATING CURRENT FOR PROGRAMMABLE LOGIC CONTROLLERS**, including:

- Utility Patent Application Transmittal (1 page)
- Fee Transmittal (1 page)
- Six (6) pages of specification; four (4) pages of claims; one (1) page of abstract
- Two (2) sheets of drawings
- Declaration and Power of Attorney (2 pages)
- Assignment (2 pages)
- Recordation Form Cover Sheet (1 page)
- Return post card

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above in an envelope addressed to the Assistant Commissioner for Patents, Box PATENT APPLICATION, Washington, D.C. 20231.



Patrick W. Rasche, Reg. No. 37,916
Armstrong Teasdale LLP
One Metropolitan Square, Suite 2600
St. Louis, MO 63102
314/621-5070